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Attorney Docket: JAH1001/JEK

4 ~~5~~. (Currently Amended) The composite elastic material as claimed in claim ~~2~~ 3, including a distension controlling reinforcement matrix embedded in the silicone elastomer layer over a distal end area of the suction liner, said matrix containing reinforcement elements that provide substantial stiffness against elongation of the liner in a direction along the liner length and which do not provide substantial resistance against distension of the silicone elastomer layer in directions transverse to the liner length.

5 ~~6~~. (Currently Amended) The composite elastic material as claimed in claim ~~2~~ 3, wherein said reinforcement matrix is a knit textile having anisotropic distension properties along orthogonal directions, such that the textile is relatively inextensible in a first direction and is relatively freely extensible in an orthogonal direction.

6 ~~7~~. (Original) The composite elastic material as claimed in claim ~~3~~ 3, including a rigid prosthetic connector element attached to the distal end of said liner, said connector element arranged to engage and retain a prosthetic pin connector usable by a prosthetic user, said connector element embedded in a cured silicone elastomer distal end cap adhered to the distal end of said suction liner and providing access to a prosthetic pin connector.

7 ~~8~~. (Currently Amended) The composite elastic material as claimed in any one of claims ~~3, 4, 5, 6 or 7~~ 3, 5, 6 or 7, wherein said suction liner is tapered inwardly towards its distal end, and wherein the liner has a circular outer wall having radii of curvature centered along a liner first longitudinal axis of external symmetry extending longitudinally centrally within the liner; a circular curved inside anterior wall portion extending along a liner length, and having first radii of curvature centered on a second longitudinal axis of anterior curvature extending longitudinally along said liner length and a circular curved inside posterior wall portion having second radii of curvature centered on a third longitudinal axis of posterior curvature extending along said liner length, said first,

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second and third longitudinal axes lying in a common longitudinally and transversely extending plane bisecting the interior and posterior wall portions, and wherein said second and third axes are spaced apart a predetermined offset distance on opposed sides of said first axis to thereby define an interior wall portion that is thicker along said liner length than the posterior portion; and further wherein said anterior and posterior wall portions intersect each other along said liner length on the liner interior along diametrically opposed inner transition wall portions that extend tangentially relative to the adjoining anterior and posterior wall portions along said liner length, whereby the interior wall of the suction liner along the inner transition wall portions are free of rapid changes in thickness, curvature or cross-section profile.

8. (Original) The composite elastic material as claimed in claim 8, wherein said second and third radii are equal to each other along their respective second and third axes.

9. (Original) The composite elastic material as claimed in claim 8, wherein an interior proximal flange area of said interior wall portion is tapered radially outwardly and an exterior proximal flange area of said posterior wall portion is tapered radially inwardly.

10. (Original) The composite elastic material as claimed in claim 8, including a spherical curved inside distal wall portion of said suction liner, said distal wall portion joining the adjoining interior wall of the suction liner along a tangency that forms a smooth transition between the inside distal wall portion and the adjoining interior wall of the suction liner, and further wherein the adjoining wall of the suction liner is circular in cross-section and has a center of curvature located on said first axis; and further wherein the thickness of the wall of the suction liner adjoining said spherical curved distal wall portion is uniform and equal to the thickness of said anterior wall portion.

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11 ~~12~~ (Original) The composite elastic material as claimed in one of claims ~~2, 3, 4,~~
~~5, 6 or 7~~, including a second cured silicone elastomer layer between the at least one
silicone elastomer layer and the elasticized fabric layer, said second silicone elastomer
layer partially penetrating and being embedded in said textile layer on one side thereof
so as to form a continuous coating on said one side, and adhered to said at least one
silicone elastomer layer on the opposite side of the second silicone elastomer layer.

12 ~~13~~ (Previously Presented) The composite elastic material as claimed in claim
~~2, 4~~, wherein said elasticized fabric layer is a normally porous, air permeable material that
has been rendered non-air permeable by a second silicone cured elastomer layer, said
second silicone elastomer layer forming a relatively thin coating as compared with the
elasticized fabric layer on said one side of said fabric layer.

14. (Canceled)

13 ~~15~~ (Currently Amended) The composite elastic material as claimed in claim 4,
~~1, 2, 3, 4, 5, 6 or 6~~, wherein the composite elastic material has a minimum tensile strength
of one Pa and a 100% modulus of 5 to 30 kPa.

14 ~~16~~ (Original) The composite elastic material as claimed in claim ~~15~~, wherein the
elasticized fabric is supplex Nylon jersey knit, 28 needles per 2.5 cm, comprising 87%
Nylon, 13% Spandex, said fabric substantially stretchable beyond its relaxed
dimensions both lengthwise and widthwise.

17. (Canceled)

15 ~~18~~ (Currently Amended) The composite elastic material as claimed in claim 4,
~~1, 2, 3, 4, 5, 6 or 6~~, wherein said microspheres are expanded polymeric shells.

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16 19. (Currently Amended) The composite elastic material as claimed in claim 4,
2, 3, 4, 5, 6 or 7, wherein said microspheres have a density of .005 g/cm³ to 1.25 g/cm³.

17 20. (Original) The composite elastic material as claimed in claim 10, wherein
said microspheres have a density of .05 g/cm³.

18 21. (Currently Amended) The composite elastic material as claimed in claim 4,
1, 2, 3, 4, 5 or 6, wherein said at least one silicone elastomer layer comprises, by
weight:

50 - 99.4% silicone elastomer
.5 - 45% silicone oil
.1 - 5% microspheres.

19 22. (Original) The composite elastic material as claimed in claim 21, wherein the
ratios of silicone elastomer, silicone oil and microspheres are as follows, by weight:

77.25% silicone elastomer
10% silicone oil
.75% microspheres.

20 23. (Currently Amended) The composite elastic material as claimed in any one
of claims 24 27, including one or more skin treatment agents blended with the silicone
elastomer.

21 24. (Previously Presented) The composite elastic material as claimed in claim
23, wherein the skin treatment agent consists of petroleum jelly, said petroleum jelly
present in an amount of up to 15% by weight of the silicone elastomer layer.

22 25. (Previously Presented) The composite elastic material as claimed in claim
23 wherein the skin treatment agent comprises petroleum jelly and aloe vera.

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23 26. (Previously Presented) The composite elastic material as claimed in claim 22 25, wherein the aloe vera constitutes 3% by weight of the at least one silicone elastomer layer and the balance of the skin treatment agents is petroleum jelly, said skin treatment agents constituting up to 20% by weight of the silicone elastomer layer.

24 27. (Currently Amended) The composite elastic material as claimed in any one of claims 22 27, wherein the at least one silicone elastomer layer has the following properties:

Density	:	.5 g/cm ³ to 1.3 g/cm ³
Tensile Strength	:	.1 Pa minimum
Durometer (00)	:	13 - 62
100% Modulus	:	5 kPa to 250 kPa
Compression Set	:	0 to 30

25 28. (Original) The composite elastic material as claimed in claim 27, wherein the silicone elastomer layer has the following properties:

Density	:	.94 g/cm ³
Tensile Strength	:	.5 Pa
Durometer (00)	:	22
100% Modulus	:	20 kPa
Compression Set	:	8

Claims 29-32 (Canceled)

Claims 33-35 (Withdrawn)

Claim 36 (Canceled)

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26 37. (Original) The composite elastic material as claimed in claim 9, wherein an interior proximal flange area of said interior wall portion is tapered radially outwardly and an exterior proximal flange area of said posterior wall portion is tapered radially inwardly.

27 38. (Original) The composite elastic material as claimed in claim 9 or 10, including a spherical curved inside distal wall portion of said suction liner, said distal wall portion joining the adjoining interior wall of the suction liner along a tangency that forms a smooth transition between the inside distal wall portion and the adjoining interior wall of the suction liner, and further wherein the adjoining wall of the suction liner is circular in cross-section and has a center of curvature located on said first axis; and further wherein the thickness of the wall of the suction liner adjoining said spherical curved distal wall portion is uniform and equal to the thickness of said anterior wall portion.

28 39. (Original) The composite elastic material as claimed in claim 8, including a second cured silicone elastomer layer between the at least one silicone elastomer layer and the elasticized fabric layer, said second silicone elastomer layer partially penetrating and being embedded in said textile layer on one side thereof so as to form a continuous coating on said one side, and adhered to said at least one silicone elastomer layer on the opposite side of the second silicone elastomer layer.

40. (Canceled)

29 41. (Original) The composite elastic material as claimed in claim 8, wherein the composite elastic material has a minimum tensile strength of one Pa and a 100% modulus of 5 to 30 kPa.